

# WIC PNSS & PedNSS

Run Date: 6/9/2021

## Table 4F

2020 Pediatric Nutrition Surveillance <sup>(1)</sup>

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## Michigan

### Comparison of Racial and Ethnic Distribution by Local Agency

Children Aged < 5 Years <sup>(2)</sup>

Comparison of Racial and Ethnic Distribution								
Local Agency	Number Included in Analysis (3,4)	White, Not Hispanic %	Black, Not Hispanic %	Hispanic %	American Indian/Alaska Native %	Asian/Pacific Islander %	Multiple Races %	All Other/Unknown %
01DHD#2	1,383	86.8	0.0	5.9	0.1	0.0	7.2	0.0
02LMAS	616	63.3	0.6	3.6	4.1	0.0	27.8	0.6
04DHD#4	1,388	87.5	0.4	3.6	0.1	0.1	8.3	0.0
05NWMCHA	2,039	88.7	0.5	3.2	0.8	0.0	6.7	0.0
06CMDHD	4,257	86.0	0.8	5.3	1.0	0.2	6.6	0.2
07West UP	1,130	87.8	1.4	2.4	0.7	0.4	7.2	0.1
08Barry	1,879	83.3	2.0	8.4	0.0	0.6	5.7	0.1
09Bay	2,054	66.4	1.5	16.8	0.1	0.2	14.9	0.1
10Gr Trav	1,446	76.6	0.6	12.0	0.8	0.3	9.6	0.1
11Berrien	2,808	47.1	35.1	9.1	0.3	0.9	7.5	0.1
12BHS	4,061	73.7	0.7	16.9	0.0	0.1	8.4	0.1
13Calhoun	3,359	53.2	17.4	9.6	0.0	5.7	14.0	0.1
14Leelanau	515	74.0	0.6	13.8	3.1	0.0	8.5	0.0
15Intercar	9,044	55.8	3.5	31.1	0.1	0.6	8.7	0.1
17Chippewa	753	38.5	0.4	5.8	22.6	0.4	32.3	0.0
19Mid-Mich	2,756	81.5	0.1	13.2	0.0	0.0	5.1	0.0
21Delta	1,002	74.6	0.1	5.8	2.2	0.0	17.4	0.0
22Iron	834	95.4	0.0	1.2	0.0	0.0	3.2	0.1
25Genesee	9,453	40.7	39.5	7.2	0.0	0.2	12.3	0.0
30HDI	2,580	21.5	48.7	22.6	0.0	0.4	6.9	0.0
32Huron	617	88.3	0.3	7.1	0.0	0.0	4.2	0.0

(1) Reporting period is January 1 through December 31

(2) Analyses based on one record per child

(3) Excludes records with unknown data errors.

(4) Prenatal program participation

\* National includes previous year's data for all participating States and ITOs.

\* Percentages are not calculated if <100 records are available for analysis after exclusions

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### 2020 Pediatric Nutrition Surveillance <sup>(1)</sup>

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### Michigan

### Comparison of Racial and Ethnic Distribution by Local Agency

### Children Aged < 5 Years <sup>(2)</sup>

Comparison of Racial and Ethnic Distribution								
Local Agency	Number Included in Analysis (3,4)	White, Not Hispanic %	Black, Not Hispanic %	Hispanic %	American Indian/Alaska Native %	Asian/Pacific Islander %	Multiple Races %	All Other/Unknown %
33Ingham	6,435	31.5	25.9	21.6	0.1	4.6	16.1	0.1
35Keweenaw	110	4.5	0.0	2.7	66.4	0.0	26.4	0.0
37Ionia	1,222	80.2	0.0	13.0	0.0	0.0	6.8	0.0
38Jackson	4,110	59.3	13.1	8.7	0.1	0.2	18.7	0.0
39Kalamazo	4,890	38.1	34.6	12.1	0.1	0.6	13.7	0.9
41Kent	12,642	25.4	26.3	33.5	0.2	4.7	9.8	0.0
43DHD#10	6,406	76.5	1.1	14.6	0.1	0.1	7.4	0.1
44Lapeer	1,290	81.2	1.0	10.2	0.1	0.5	7.0	0.2
45Tuscola	1,201	86.4	0.5	8.0	0.0	0.0	5.0	0.1
46CAA	1,548	64.0	1.7	24.1	0.1	0.1	9.9	0.1
47Livingst	1,540	86.9	1.4	4.5	0.1	0.5	6.6	0.0
50Macomb	10,101	49.0	29.6	3.3	0.0	8.3	9.8	0.1
51DCS	2,073	60.9	10.8	13.7	0.2	1.4	12.8	0.2
52Marquett	1,006	80.2	1.2	4.5	1.1	0.4	12.6	0.0
56MMCAA	1,227	84.6	1.1	5.5	0.2	0.2	8.3	0.0
58Monroe	2,432	69.7	6.4	9.0	0.0	0.1	14.4	0.4
61Muskegon	4,515	45.2	27.9	12.9	0.2	0.2	13.6	0.0
63Oakland	11,340	44.1	30.0	13.7	0.1	2.3	9.8	0.1
73Saginaw	2,771	35.9	28.0	23.6	0.0	0.2	12.1	0.2
74St Clair	2,544	69.1	5.4	10.1	0.1	0.1	15.0	0.0
76Sanilac	699	90.3	0.1	5.9	0.0	0.0	3.7	0.0

(1) Reporting period is January 1 through December 31

(2) Analyses based on one record per child

(3) Excludes records with unknown data errors.

(4) Prenatal program participation

\* National includes previous year's data for all participating States and ITOs.

\* Percentages are not calculated if <100 records are available for analysis after exclusions

# WIC PNSS & PedNSS

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### Michigan

#### Comparison of Racial and Ethnic Distribution by Local Agency

Children Aged < 5 Years (2)

Comparison of Racial and Ethnic Distribution								
Local Agency	Number Included in Analysis (3,4)	White, Not Hispanic %	Black, Not Hispanic %	Hispanic %	American Indian/Alaska Native %	Asian/Pacific Islander %	Multiple Races %	All Other/Unknown %
78Shiawass	1,401	80.9	0.6	9.8	0.0	0.1	8.6	0.1
81Washtena	4,083	31.9	39.1	11.7	0.0	1.8	15.3	0.1
82Wayne	19,540	54.6	25.8	6.3	0.1	6.2	6.9	0.1
89Urban L	12,690	12.3	77.1	6.3	0.1	0.4	3.8	0.0
90Detroit	21,638	7.7	72.7	15.9	0.1	1.0	2.6	0.0
<b>Michigan</b>	<b>193,486</b>	<b>46.6</b>	<b>28.7</b>	<b>13.2</b>	<b>0.3</b>	<b>2.1</b>	<b>9.0</b>	<b>0.1</b>
<b>National (Prior Year)</b>	<b>879,844</b>	<b>40.0</b>	<b>24.2</b>	<b>20.8</b>	<b>1.2</b>	<b>2.6</b>	<b>7.0</b>	<b>4.1</b>

(1) Reporting period is January 1 through December 31

(2) Analyses based on one record per child

(3) Excludes records with unknown data errors.

(4) Prenatal program participation

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# WIC PNSS & PedNSS

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### Michigan

### Comparison of Age Distribution by Local Agency

### Children Aged < 5 Years <sup>(2)</sup>

Comparison of Age Distribution				
Local Agency	Number Included in Analysis (3,4)	0 - 11 Months %	12 - 23 Months %	24 - 59 Months %
01DHD#2	1,383	32.4	19.6	48.0
02LMAS	616	28.4	22.7	48.9
04DHD#4	1,388	30.5	23.5	46.0
05NWMCHA	2,039	32.7	20.6	46.7
06CMDHD	4,257	28.7	23.6	47.7
07West UP	1,130	28.8	23.5	47.8
08Barry	1,879	30.7	21.8	47.6
09Bay	2,054	25.0	28.2	46.8
10Gr Trav	1,446	31.5	23.4	45.1
11Berrien	2,808	39.6	17.7	42.7
12BHS	4,061	30.6	22.7	46.7
13Calhoun	3,359	30.6	22.1	47.3
14Leelanau	515	32.8	18.4	48.7
15Inter-car	9,044	27.9	23.7	48.4
17Chippewa	753	28.2	23.1	48.7
19Mid-Mich	2,756	33.7	20.4	45.9
21Delta	1,002	32.2	25.4	42.3
22Iron	834	28.4	21.9	49.6
25Genesee	9,453	34.1	20.1	45.8
30HDI	2,580	32.4	18.7	48.9
32Huron	617	33.7	21.1	45.2

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Records rejected if date of birth and date of visit unknown.

\* National includes previous year's data for all participating States and ITOs.

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### Michigan

### Comparison of Age Distribution by Local Agency

### Children Aged < 5 Years <sup>(2)</sup>

Comparison of Age Distribution				
Local Agency	Number Included in Analysis (3,4)	0 - 11 Months %	12 - 23 Months %	24 - 59 Months %
33Ingham	6,435	33.4	20.8	45.8
35Keweenaw	110	36.4	16.4	47.3
37Ionia	1,222	30.0	23.5	46.6
38Jackson	4,110	28.8	22.8	48.4
39Kalamazo	4,890	32.5	21.8	45.7
41Kent	12,642	33.0	21.2	45.8
43DHD#10	6,406	28.0	23.4	48.5
44Lapeer	1,290	26.9	24.7	48.4
45Tuscola	1,201	29.0	22.1	48.9
46CAA	1,548	35.7	20.2	44.2
47Livingst	1,540	30.8	22.2	47.0
50Macomb	10,101	32.3	24.4	43.4
51DCS	2,073	30.4	23.2	46.4
52Marquett	1,006	26.5	26.6	46.8
56MMCAA	1,227	36.2	21.1	42.7
58Monroe	2,432	35.8	21.5	42.7
61Muskegon	4,515	32.2	22.5	45.3
63Oakland	11,340	35.8	19.1	45.1
73Saginaw	2,771	35.0	20.1	44.9
74St Clair	2,544	31.1	25.2	43.7
76Sanilac	699	33.3	21.6	45.1

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**Michigan****Comparison of Age Distribution by Local Agency****Children Aged < 5 Years (2)**

<b>Comparison of Age Distribution</b>				
<b>Local Agency</b>	<b>Number Included in Analysis (3,4)</b>	<b>0 - 11 Months %</b>	<b>12 - 23 Months %</b>	<b>24 - 59 Months %</b>
78Shiawass	1,401	28.3	24.0	47.8
81Washtena	4,083	31.7	21.8	46.5
82Wayne	19,540	33.2	21.7	45.1
89Urban L	12,690	34.8	19.4	45.8
90Detroit	21,638	35.1	20.9	43.9
<b>Michigan</b>	<b>193,486</b>	<b>32.6</b>	<b>21.7</b>	<b>45.7</b>
<b>National (Prior Year)</b>	<b>879,844</b>	<b>36.5</b>	<b>21.1</b>	<b>42.4</b>

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Records rejected if date of birth and date of visit unknown.

\* National includes previous year's data for all participating States and ITOs.

\* Percentages are not calculated if &lt; 100 records are available for analysis after exclusions.

# WIC PNSS & PedNSS

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### 2020 Pediatric Nutrition Surveillance <sup>(1)</sup>

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### Michigan

### Comparison of Growth and Anemia Indicators by Local Agency

### Children Aged < 5 Years <sup>(2)</sup>

#### Comparison of Growth and Anemia Indicators <sup>(3,4)</sup>

Comparison of Growth and Anemia Indicators (3,4)												
Local Agency	Birth Weight (5)			Height and Weight (6,7)							Anemia Low Hb/Hct (8)	
	Low	High		Short Stature	Under- Weight	Obese	≥ 2 Yrs Overweight and Obese					
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
01DHD#2	308	6.8 (5)	9.4 (39)	541	8.3 (27)	3.1 (8)	10.5 (25)	243	22.2 (44)	12.3 (7)	248	11.3 (16)
02LMAS	128	7.8 (8)	9.4 (39)	292	6.8 (14)	3.8 (12)	9.9 (18)	113	18.6 (36)	14.2 (18)	117	2.6 (2)
04DHD#4	319	8.2 (9)	9.1 (37)	635	6.5 (12)	6.6 (37)	10.6 (27)	235	13.6 (6)	16.2 (33)	203	16.7 (30)
05NWMCHA	421	9.0 (14)	6.7 (18)	1,168	8.4 (29)	7.1 (39)	11.0 (33)	452	19.5 (40)	17.0 (39)	349	11.2 (15)
06CMDHD	891	8.8 (12)	8.6 (31)	2,059	8.5 (32)	4.6 (21)	11.3 (36)	825	16.4 (23)	16.6 (37)	717	9.6 (11)
07West UP	240	10.0 (22)	10.0 (42)	388	7.2 (17)	2.6 (5)	9.0 (7)	196	18.4 (33)	8.7 (1)	216	3.2 (3)
08Barry	400	11.3 (29)	7.3 (22)	1,168	6.4 (11)	4.5 (19)	9.9 (18)	440	14.8 (12)	16.4 (36)	314	5.4 (6)
09Bay	459	12.4 (37)	9.2 (38)	872	8.1 (25)	1.6 (2)	11.5 (39)	382	18.8 (37)	14.1 (17)	409	9.8 (12)
10Gr Trav	335	10.1 (23)	8.7 (32)	743	3.5 (1)	7.9 (44)	7.7 (1)	267	21.0 (42)	10.5 (2)	251	22.3 (39)
11Berrien	698	8.9 (13)	4.7 (6)	1,830	7.3 (18)	4.6 (21)	10.1 (22)	731	17.2 (27)	12.9 (10)	872	6.9 (9)
12BHS	882	8.2 (9)	7.9 (25)	1,746	9.5 (37)	5.2 (27)	10.4 (23)	669	15.7 (18)	13.5 (14)	600	15.5 (29)
13Calhoun	815	12.0 (32)	6.9 (19)	1,861	7.5 (19)	7.5 (43)	10.5 (25)	575	16.2 (21)	16.2 (33)	557	17.2 (32)
14Leelanau	97	*	*	224	6.7 (13)	6.3 (35)	11.6 (40)	78	*	*	84	*

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age <= 2.3rd percentile, underweight is defined as weight-for-length <= 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as >= 97.7th percentile.

(7) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age >= 85th to < 95th percentile, and obesity is defined as >= 95th percentile.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

\* National includes previous year's data for all participating States and ITOs

\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.

# WIC PNSS & PedNSS

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2020 Pediatric Nutrition Surveillance (1)

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Michigan

Comparison of Growth and Anemia Indicators by Local Agency

Children Aged < 5 Years (2)

Comparison of Growth and Anemia Indicators (3,4)

Comparison of Growth and Anemia Indicators (3,4)												
Local Agency	Birth Weight (5)			Height and Weight (6,7)							Anemia Low Hb/Hct (8)	
	Low		High	Short Stature		Under- Weight	Obese	≥ 2 Yrs Overweight and Obese				
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
15Intercar	1,801	9.6 (19)	7.9 (25)	5,643	5.4 (4)	4.1 (14)	10.9 (30)	2,376	15.7 (18)	15.0 (24)	2,719	20.1 (37)
17Chippewa	151	7.3 (7)	13.9 (45)	314	10.2 (42)	5.4 (29)	18.2 (46)	153	14.4 (8)	19.6 (42)	81	*
19Mid-Mich	597	9.2 (15)	7.4 (24)	1,445	8.4 (29)	4.7 (23)	12.0 (42)	541	14.4 (8)	18.3 (40)	505	0.8 (1)
21Delta	249	7.2 (6)	8.0 (27)	517	12.4 (46)	1.4 (1)	16.1 (45)	187	19.3 (39)	19.8 (43)	206	13.1 (21)
22Iron	168	10.7 (26)	8.9 (34)	335	7.8 (22)	5.4 (29)	11.3 (36)	142	12.7 (2)	18.3 (40)	152	13.2 (22)
25Genesee	2,237	13.3 (40)	4.3 (3)	3,592	9.4 (36)	2.8 (7)	11.2 (35)	1,455	14.7 (11)	12.4 (8)	1,547	19.3 (36)
30HDI	540	11.7 (31)	3.9 (1)	1,169	6.1 (7)	7.4 (41)	8.2 (2)	340	15.0 (14)	11.8 (5)	333	6.3 (7)
32Huron	142	11.3 (29)	8.5 (30)	243	10.7 (43)	4.1 (14)	9.1 (9)	79	*	*	87	*
33Ingham	1,485	10.7 (26)	5.7 (13)	3,081	7.8 (22)	7.1 (39)	9.3 (11)	1,012	16.3 (22)	15.2 (25)	944	10.8 (13)
35Keweenaw	28	*	*	40	*	*	*	15	*	*	16	*
37Ionia	281	6.4 (4)	10.3 (43)	693	4.3 (2)	7.4 (41)	8.7 (5)	233	18.5 (35)	13.3 (13)	250	4.0 (4)
38Jackson	886	9.6 (19)	8.8 (33)	2,099	5.2 (3)	13.6 (46)	9.0 (7)	670	17.8 (32)	16.6 (37)	576	17.2 (32)
39Kalamazo	1,059	10.8 (28)	5.9 (15)	2,448	6.2 (9)	6.4 (36)	8.5 (4)	754	17.5 (31)	14.3 (21)	907	23.5 (41)
41Kent	2,748	13.9 (42)	5.4 (10)	5,872	10.7 (43)	3.3 (10)	11.4 (38)	2,443	15.6 (16)	13.8 (16)	2,353	14.0 (25)

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age <= 2.3rd percentile, underweight is defined as weight-for-length <= 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as >= 97.7th percentile.

(7) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age >= 85th to < 95th percentile, and obesity is defined as >= 95th percentile.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

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Michigan

Comparison of Growth and Anemia Indicators by Local Agency

Children Aged < 5 Years (2)

Comparison of Growth and Anemia Indicators (3,4)

Comparison of Growth and Anemia Indicators (3,4)												
Local Agency	Birth Weight (5)			Height and Weight (6,7)							Anemia Low Hb/Hct (8)	
	Low		High	Short Stature		Under- Weight	Obese	≥ 2 Yrs Overweight and Obese				
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
43DHD#10	1,368	8.6 (11)	8.2 (29)	2,804	8.4 (29)	3.3 (10)	11.1 (34)	1,184	17.2 (27)	15.2 (25)	1,085	11.4 (17)
44Lapeer	253	12.3 (35)	9.9 (41)	580	6.0 (6)	4.5 (19)	9.5 (13)	212	16.5 (25)	14.2 (18)	241	19.1 (35)
45Tuscola	248	9.3 (17)	7.3 (22)	702	7.7 (21)	5.8 (33)	10.4 (23)	282	18.4 (33)	15.6 (31)	226	12.4 (20)
46CAA	395	6.3 (3)	8.1 (28)	545	9.5 (37)	2.6 (5)	9.5 (13)	231	12.1 (1)	13.0 (11)	260	31.5 (43)
47Livingst	312	12.2 (34)	5.8 (14)	527	7.6 (20)	2.5 (4)	8.3 (3)	260	13.5 (4)	11.2 (3)	281	4.3 (5)
50Macomb	2,422	12.3 (35)	4.9 (7)	4,192	8.3 (27)	5.2 (27)	10.7 (28)	1,529	15.0 (14)	12.5 (9)	1,332	11.0 (14)
51DCS	493	9.7 (21)	6.9 (19)	995	5.7 (5)	4.9 (24)	8.9 (6)	346	13.6 (6)	14.2 (18)	327	12.2 (19)
52Marquett	209	5.3 (1)	7.2 (21)	601	9.2 (34)	4.2 (17)	11.8 (41)	226	20.4 (41)	15.5 (30)	127	6.3 (7)
56MMCAA	260	9.2 (15)	10.4 (44)	687	10.0 (40)	3.2 (9)	10.8 (29)	248	19.0 (38)	14.9 (22)	224	13.8 (24)
58Monroe	589	9.5 (18)	6.6 (17)	1,028	9.6 (39)	4.1 (14)	10.0 (20)	350	16.6 (26)	14.9 (22)	377	15.1 (27)
61Muskegon	1,129	12.6 (38)	4.9 (7)	2,205	8.6 (33)	4.0 (13)	12.9 (43)	749	17.2 (27)	15.2 (25)	748	15.1 (27)
63Oakland	2,603	12.6 (38)	5.6 (12)	5,359	9.3 (35)	5.0 (25)	9.8 (17)	2,000	16.1 (20)	11.7 (4)	1,863	21.7 (38)
73Saginaw	597	13.7 (41)	5.5 (11)	1,418	6.1 (7)	5.4 (29)	9.6 (15)	432	16.4 (23)	15.3 (28)	515	16.9 (31)
74St Clair	619	10.3 (24)	6.0 (16)	1,379	7.0 (16)	6.7 (38)	9.6 (15)	425	17.2 (27)	15.8 (32)	491	12.0 (18)

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age <= 2.3rd percentile, underweight is defined as weight-for-length <= 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as >= 97.7th percentile.

(7) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age >= 85th to < 95th percentile, and obesity is defined as >= 95th percentile.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

\* National includes previous year's data for all participating States and ITOs

\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.

# WIC PNSS & PedNSS

Run Date: 6/9/2021

## Table 6F

### 2020 Pediatric Nutrition Surveillance <sup>(1)</sup>

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### Michigan

### Comparison of Growth and Anemia Indicators by Local Agency

### Children Aged < 5 Years <sup>(2)</sup>

### Comparison of Growth and Anemia Indicators <sup>(3,4)</sup>

Comparison of Growth and Anemia Indicators (3,4)												
Local Agency	Birth Weight (5)			Height and Weight (6,7)							Anemia Low Hb/Hct (8)	
	Low		High	Short Stature		Under- Weight	Obese	≥ 2 Yrs Overweight and Obese				
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
76Sanilac	155	5.8 (2)	9.0 (36)	257	12.1 (45)	1.6 (2)	15.2 (44)	104	13.5 (4)	21.2 (44)	113	13.3 (23)
78Shiawass	302	10.3 (24)	8.9 (34)	634	6.2 (9)	5.8 (33)	9.1 (9)	241	22.0 (43)	16.2 (33)	263	9.1 (10)
81Washtena	929	14.0 (43)	4.3 (3)	1,641	6.9 (15)	5.1 (26)	10.0 (20)	694	15.6 (16)	12.1 (6)	654	22.3 (39)
82Wayne	4,231	12.0 (32)	5.2 (9)	7,167	7.9 (24)	4.4 (18)	10.9 (30)	3,029	14.6 (10)	13.6 (15)	2,894	15.0 (26)
89Urban L	2,597	15.2 (45)	4.0 (2)	6,043	10.1 (41)	8.4 (45)	10.9 (30)	2,189	12.9 (3)	15.3 (28)	2,419	30.9 (42)
90Detroit	5,685	14.7 (44)	4.4 (5)	9,088	8.2 (26)	5.6 (32)	9.3 (11)	3,057	14.8 (12)	13.2 (12)	3,132	18.9 (34)
Michigan	43,761	11.8	6.0	88,881	8.1	5.3	10.4	33,397	15.8	14.2	33,185	16.4
National (Prior Year)	196,866	11.1	6.3	814,083	8.0	2.9	11.1	345,562	15.9	13.5	538,510	14.5

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age ≤ 2.3rd percentile, underweight is defined as weight-for-length ≤ 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as ≥ 97.7th percentile.

(7) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age ≥ 85th to < 95th percentile, and obesity is defined as ≥ 95th percentile.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

\* National includes previous year's data for all participating States and ITOs

\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.

# WIC PNSS & PedNSS

Run Date: 6/9/2021

## Table 7F

### 2020 Pediatric Nutrition Surveillance <sup>(1)</sup>

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### Michigan

### Comparison of Breastfeeding, TV Viewing, and Smoking in Household by Local Agency <sup>(2)</sup>

### Children Aged < 5 Years <sup>(3)</sup>

### Comparison of Breastfeeding, TV Viewing, and Smoking in Household <sup>(4,5)</sup>

Local Agency	Breastfeeding (6)				Exclusive Breastfeeding (7)				≤ 2 Hours TV Viewing/Day (8)		Smoking in Household	
	Number	% Ever Breastfed  (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	%  (Rank)
01DHD#2	309	63.1 (34)	150	22.7 (35)	206	12.6 (32)	94	*	141	10.6 (22)	682	83.3 (26)
02LMAS	128	74.2 (16)	91	*	112	15.2 (21)	52	*	76	*	318	80.2 (31)
04DHD#4	319	71.8 (22)	223	34.5 (15)	255	11.4 (35)	145	24.1 (13)	195	13.3 (10)	704	88.6 (9)
05NWMCHA	440	78.0 (10)	247	37.2 (10)	308	19.5 (10)	131	32.8 (4)	226	19.5 (2)	994	87.8 (16)
06CMDHD	893	73.1 (19)	646	37.3 (9)	755	15.2 (21)	388	25.5 (9)	541	13.5 (9)	2,196	86.2 (19)
07West UP	241	82.2 (3)	194	49.0 (1)	208	26.0 (3)	132	25.0 (11)	164	15.9 (5)	575	88.5 (10)
08Barry	410	80.2 (7)	225	32.4 (19)	285	18.2 (12)	142	23.2 (15)	200	11.0 (19)	930	83.9 (22)
09Bay	464	65.5 (30)	238	29.4 (28)	390	14.9 (24)	131	25.2 (10)	223	7.6 (31)	1,019	88.5 (10)
10Gr Trav	339	81.7 (4)	210	46.2 (2)	245	27.3 (1)	133	33.8 (3)	180	15.0 (7)	695	90.2 (7)
11Berrien	701	70.2 (24)	444	34.7 (14)	379	15.8 (18)	304	20.1 (20)	381	10.5 (23)	1,244	74.8 (40)
12BHS	893	78.5 (9)	448	32.8 (17)	657	15.8 (18)	240	23.8 (14)	377	12.2 (16)	1,965	83.6 (24)
13Calhoun	828	69.0 (25)	449	27.4 (29)	592	15.4 (20)	234	16.2 (28)	347	8.4 (30)	1,643	93.9 (3)
14Leelanau	97	*	88	*	72	*	51	*	82	*	266	72.9 (42)

(1) Reporting period is January 1 through December 31.

(2) TV Viewing and Smoking in Household data are not reported by all contributors.

(3) Analyses based on one record per child.

(4) Excludes records with unknown data or errors.

(5) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

(6) Infants born during the reporting period included in the Ever Breastfed analysis. Infants who turned 6 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 6 Months analysis. Children who turned 12 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 12 Months analysis.

(7) The analysis includes infants who were ever breastfed and who turned that age during the reporting period by/on their date of visit.

(8) Children aged 2 years and older included in the analyses.

\* National includes previous year's data for all participating States and ITOs

\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.

# WIC PNSS & PedNSS

Run Date: 6/9/2021

## Table 7F

### 2020 Pediatric Nutrition Surveillance <sup>(1)</sup>

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### Michigan

### Comparison of Breastfeeding, TV Viewing, and Smoking in Household by Local Agency <sup>(2)</sup>

### Children Aged < 5 Years <sup>(3)</sup>

### Comparison of Breastfeeding, TV Viewing, and Smoking in Household <sup>(4,5)</sup>

Local Agency	Breastfeeding (6)				Exclusive Breastfeeding (7)				≤ 2 Hours TV Viewing/Day (8)		Smoking in Household	
	Number	% Ever Breastfed  (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	%  (Rank)
15InterCar	1,985	75.1 (14)	1,194	31.2 (21)	1,668	15.0 (23)	717	26.8 (6)	1,016	13.0 (12)	4,353	91.4 (5)
17Chippewa	151	63.6 (33)	90	*	115	26.1 (2)	52	*	84	*	393	91.3 (6)
19Mid-Mich	600	81.7 (4)	327	38.2 (7)	394	19.8 (8)	165	35.2 (2)	277	13.0 (12)	1,294	83.2 (27)
21Delta	249	75.1 (14)	162	40.7 (4)	184	11.4 (35)	104	22.1 (16)	127	14.2 (8)	451	85.4 (21)
22Iron	169	68.6 (26)	119	44.5 (3)	142	19.7 (9)	81	*	103	26.2 (1)	448	88.4 (13)
25Genesee	2,243	54.6 (41)	1,303	21.3 (37)	1,478	12.7 (31)	700	15.4 (30)	1,044	6.7 (34)	4,460	80.8 (30)
30HDI	539	59.2 (39)	291	14.1 (41)	332	8.7 (41)	143	8.4 (34)	289	3.5 (40)	1,295	72.4 (43)
32Huron	142	76.1 (13)	76	*	94	*	49	*	67	*	282	81.6 (29)
33Ingham	1,500	71.9 (21)	804	30.2 (23)	1,031	18.1 (14)	435	18.6 (27)	686	10.9 (21)	3,021	92.8 (4)
35Keweenaw	29	*	12	*	10	*	13	*	12	*	52	*
37Ionia	283	83.0 (2)	146	30.8 (22)	237	17.7 (16)	81	*	136	15.4 (6)	588	86.4 (18)
38Jackson	894	67.7 (29)	788	35.4 (12)	764	12.2 (33)	457	24.3 (12)	650	12.6 (15)	2,143	75.6 (38)
39Kalamazo	1,087	62.9 (35)	686	30.0 (25)	777	14.7 (27)	412	25.7 (7)	614	8.5 (29)	2,197	74.3 (41)

(1) Reporting period is January 1 through December 31.

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(4) Excludes records with unknown data or errors.

(5) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

(6) Infants born during the reporting period included in the Ever Breastfed analysis. Infants who turned 6 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 6 Months analysis. Children who turned 12 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 12 Months analysis.

(7) The analysis includes infants who were ever breastfed and who turned that age during the reporting period by/on their date of visit.

(8) Children aged 2 years and older included in the analyses.

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# WIC PNSS & PedNSS

Run Date: 6/9/2021

## Table 7F

### 2020 Pediatric Nutrition Surveillance <sup>(1)</sup>

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### Michigan

### Comparison of Breastfeeding, TV Viewing, and Smoking in Household by Local Agency <sup>(2)</sup>

### Children Aged < 5 Years <sup>(3)</sup>

### Comparison of Breastfeeding, TV Viewing, and Smoking in Household <sup>(4,5)</sup>

Local Agency	Breastfeeding <sup>(6)</sup>						Exclusive Breastfeeding <sup>(7)</sup>				≤ 2 Hours TV Viewing/Day <sup>(8)</sup>		Smoking in Household	
	Number	% Ever Breastfed (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% (Rank)	Number	% (Rank)
41Kent	2,802	72.8 (20)	1,634	27.4 (29)	2,080	14.9 (24)	925	19.5 (24)	1,415	8.8 (28)	5,339	83.8 (23)	12,528	0.8 (3)
43DHD#10	1,381	76.2 (12)	930	38.7 (6)	1,199	18.2 (12)	574	31.4 (5)	792	13.1 (11)	3,256	88.4 (13)	6,394	3.2 (38)
44Lapeer	255	79.6 (8)	195	36.4 (11)	263	20.2 (6)	114	15.8 (29)	174	7.5 (32)	646	89.0 (8)	1,287	1.2 (13)
45Tuscola	248	74.2 (16)	159	33.3 (16)	209	13.9 (30)	97	*	138	5.1 (37)	631	88.3 (15)	1,200	2.1 (23)
46CAA	399	62.7 (36)	210	30.0 (25)	231	22.9 (5)	128	20.3 (19)	197	12.2 (16)	704	78.3 (35)	1,546	2.4 (26)
47Livingst	312	80.8 (6)	176	29.5 (27)	225	16.0 (17)	115	21.7 (17)	159	10.1 (25)	768	83.1 (28)	1,539	1.3 (15)
50Macomb	2,438	57.3 (40)	1,628	26.9 (31)	1,926	10.3 (39)	1,160	14.5 (31)	1,445	9.1 (26)	4,489	77.7 (36)	10,058	0.8 (3)
51DCS	494	68.6 (26)	254	26.4 (32)	369	14.9 (24)	151	19.9 (22)	228	11.0 (19)	967	87.4 (17)	2,065	0.9 (7)
52Marquett	210	84.8 (1)	109	34.9 (13)	171	18.1 (14)	54	*	72	*	514	97.5 (1)	990	0.9 (7)
56MMCAA	261	76.6 (11)	153	37.9 (8)	174	23.0 (4)	101	35.6 (1)	147	17.7 (3)	564	88.5 (10)	1,199	1.5 (17)
58Monroe	592	65.4 (31)	442	30.1 (24)	433	11.1 (38)	302	19.5 (24)	387	6.5 (36)	1,113	75.6 (38)	2,425	3.6 (44)
61Muskegon	1,132	64.0 (32)	645	26.2 (33)	835	12.0 (34)	451	21.3 (18)	537	10.2 (24)	2,130	68.5 (44)	4,501	2.9 (35)
63Oakland	2,661	71.0 (23)	1,700	31.6 (20)	1,607	14.7 (27)	1,268	20.0 (21)	1,509	11.5 (18)	5,362	79.1 (33)	11,249	0.8 (3)

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(7) The analysis includes infants who were ever breastfed and who turned that age during the reporting period by/on their date of visit.

(8) Children aged 2 years and older included in the analyses.

\* National includes previous year's data for all participating States and ITOs

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# WIC PNSS & PedNSS

Run Date: 6/9/2021

## Table 7F

### 2020 Pediatric Nutrition Surveillance <sup>(1)</sup>

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### Michigan

### Comparison of Breastfeeding, TV Viewing, and Smoking in Household by Local Agency <sup>(2)</sup>

### Children Aged < 5 Years <sup>(3)</sup>

### Comparison of Breastfeeding, TV Viewing, and Smoking in Household <sup>(4,5)</sup>

Local Agency	Breastfeeding (6)						Exclusive Breastfeeding (7)				≤ 2 Hours TV Viewing/Day (8)		Smoking in Household	
	Number	% Ever Breastfed  (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	%  (Rank)	Number	%  (Rank)
73Saginaw	607	61.1 (38)	404	22.5 (36)	410	8.3 (42)	351	11.4 (32)	351	6.8 (33)	1,248	78.8 (34)	2,707	2.5 (29)
74St Clair	621	62.3 (37)	305	21.3 (37)	547	11.3 (37)	165	18.8 (26)	287	9.1 (26)	1,161	76.5 (37)	2,542	3.1 (37)
76Sanilac	157	47.1 (45)	74	*	119	18.5 (11)	31	*	68	*	331	83.4 (25)	696	1.3 (15)
78Shiawass	304	68.1 (28)	184	32.6 (18)	294	14.3 (29)	102	19.6 (23)	164	12.8 (14)	686	85.9 (20)	1,397	2.6 (30)
81Washtena	937	73.3 (18)	641	39.0 (5)	680	19.9 (7)	488	25.6 (8)	545	16.3 (4)	1,938	97.0 (2)	4,051	0.6 (1)
82Wayne	4,435	52.6 (43)	3,296	25.5 (34)	3,167	8.9 (40)	2,467	9.9 (33)	2,883	6.6 (35)	9,489	79.5 (32)	19,440	1.0 (10)
89Urban L	2,728	52.7 (42)	1,767	18.6 (40)	1,790	7.2 (44)	1,034	7.9 (35)	1,525	4.8 (38)	5,982	56.8 (46)	12,516	2.9 (35)
90Detroit	5,795	49.4 (44)	3,006	19.9 (39)	3,431	7.9 (43)	2,149	7.4 (36)	2,604	3.8 (39)	9,934	61.8 (45)	21,538	2.7 (32)
<b>Michigan</b>	<b>44,718</b>	<b>63.9</b>	<b>27,565</b>	<b>28.2</b>	<b>31,867</b>	<b>13.2</b>	<b>17,815</b>	<b>17.6</b>	<b>23,867</b>	<b>9.3</b>	<b>91,478</b>	<b>78.9</b>	<b>192,304</b>	<b>1.9</b>
<b>National (Prior Year)</b>	<b>203,824</b>	<b>70.1</b>	<b>107,617</b>	<b>29.6</b>	<b>104,194</b>	<b>22.6</b>	<b>78,852</b>	<b>13.7</b>	<b>88,243</b>	<b>6.7</b>	<b>285,831</b>	<b>82.0</b>	<b>681,145</b>	<b>4.2</b>

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(7) The analysis includes infants who were ever breastfed and who turned that age during the reporting period by/on their date of visit.

(8) Children aged 2 years and older included in the analyses.

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# WIC PNSS & PedNSS

Run Date: 6/9/2021

## Table 6F

2018 - 2020 Pediatric Nutrition Surveillance (1)

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## Michigan

### Comparison of Growth and Anemia Indicators by Local Agency

Children Aged < 5 Years (2)

Combined 3 Years

### Comparison of Growth and Anemia Indicators (3,4)

Local Agency	Birth Weight (5)			Height and Weight (6,7)							Anemia Low Hb/Hct (8)	
	Low	High		Short Stature	Under- Weight	Obese	≥ 2 Yrs Overweight and Obese					
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
01DHD#2	996	7.7 (4)	8.2 (32)	3,670	7.5 (25)	2.6 (12)	11.3 (27)	1,623	18.2 (33)	14.0 (18)	2,416	15.6 (24)
02LMAS	437	9.2 (20)	10.3 (44)	1,665	5.3 (2)	4.0 (37)	10.1 (8)	696	18.2 (33)	15.2 (32)	1,076	8.6 (7)
04DHD#4	990	8.9 (19)	9.6 (41)	3,572	7.5 (25)	3.0 (21)	11.6 (31)	1,514	18.0 (32)	16.3 (40)	2,227	19.2 (35)
05NWMCHA	1,376	8.7 (16)	7.5 (18)	5,951	7.3 (22)	5.1 (44)	11.4 (28)	2,646	17.6 (30)	15.2 (32)	3,554	10.3 (11)
06CMDHD	2,802	8.4 (10)	8.0 (25)	10,534	7.2 (20)	3.2 (28)	10.7 (17)	4,562	17.1 (22)	15.5 (36)	6,488	11.5 (17)
07West UP	728	7.7 (4)	9.3 (40)	2,726	7.5 (25)	2.2 (6)	10.9 (22)	1,264	17.2 (26)	13.1 (8)	1,776	7.7 (2)
08Barry	1,312	9.2 (20)	9.1 (39)	5,464	7.4 (24)	2.9 (19)	10.9 (22)	2,346	19.9 (43)	14.6 (24)	3,136	8.0 (3)
09Bay	1,426	10.0 (28)	8.4 (34)	5,392	7.9 (31)	1.6 (2)	12.4 (38)	2,374	18.3 (36)	17.2 (44)	3,633	11.3 (15)
10Gr Trav	1,113	9.3 (23)	11.4 (46)	3,708	4.4 (1)	6.1 (46)	9.7 (5)	1,601	20.5 (45)	12.4 (7)	2,195	18.6 (32)
11Berrien	2,372	9.2 (20)	5.6 (8)	8,817	6.9 (15)	3.8 (34)	10.6 (14)	3,723	16.8 (16)	14.0 (18)	5,537	14.0 (20)
12BHS	2,799	8.0 (6)	7.6 (19)	9,895	8.5 (37)	2.7 (14)	12.1 (36)	4,167	16.7 (14)	15.0 (30)	5,953	12.6 (18)
13Calhoun	2,525	10.5 (32)	7.2 (17)	9,414	7.9 (31)	4.0 (37)	13.0 (41)	3,967	17.0 (19)	16.3 (40)	5,784	19.5 (36)
14Leelanau	344	8.1 (7)	8.1 (29)	1,360	6.6 (13)	3.3 (30)	12.1 (36)	586	18.4 (38)	16.9 (43)	830	11.4 (16)
15Intercar	6,219	8.8 (18)	8.7 (36)	25,561	5.8 (6)	3.0 (21)	11.6 (31)	11,511	16.0 (8)	14.7 (25)	16,419	26.0 (44)

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age ≤ 2.3rd percentile, underweight is defined as weight-for-length ≤ 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as ≥ 97.7th percentile.

(7) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age ≥ 85th to < 95th percentile, and obesity is defined as ≥ 95th percentile.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.

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## Table 6F

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### Michigan

#### Comparison of Growth and Anemia Indicators by Local Agency

Children Aged < 5 Years (2)

Combined 3 Years

#### Comparison of Growth and Anemia Indicators (3,4)

Comparison of Growth and Anemia Indicators (3,4)												
Local Agency	Birth Weight (5)			Height and Weight (6,7)							Anemia Low Hb/Hct (8)	
	Low		High	Short Stature		Under- Weight	Obese	≥ 2 Yrs Overweight and Obese				
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
17Chippewa	536	6.3 (2)	11.9 (47)	2,045	7.3 (22)	4.1 (39)	15.2 (45)	935	16.4 (13)	17.5 (45)	1,157	21.9 (40)
19Mid-Mich	1,927	8.5 (14)	8.0 (25)	7,386	8.7 (40)	2.5 (10)	11.8 (35)	3,064	17.0 (19)	15.0 (30)	4,656	3.4 (1)
21Delta	768	9.4 (24)	7.8 (23)	2,785	9.3 (43)	2.0 (3)	11.6 (31)	1,174	16.9 (17)	13.6 (14)	1,739	9.8 (10)
22Iron	525	10.3 (29)	9.0 (38)	2,016	6.1 (10)	3.2 (28)	11.5 (30)	915	17.3 (27)	16.3 (40)	1,268	16.5 (29)
25Genesee	7,282	13.2 (45)	5.3 (7)	24,111	9.2 (42)	2.7 (14)	11.1 (25)	10,150	15.5 (6)	12.1 (2)	14,997	21.8 (38)
30HDI	1,578	13.0 (44)	4.3 (3)	5,537	6.0 (8)	4.5 (42)	10.8 (20)	2,331	16.3 (11)	13.9 (17)	3,367	10.8 (12)
32Huron	388	10.3 (29)	11.3 (45)	1,501	9.1 (41)	3.1 (27)	13.0 (41)	636	15.3 (5)	13.5 (12)	994	8.7 (8)
33Ingham	4,646	10.5 (32)	6.3 (13)	15,995	8.5 (37)	3.8 (34)	10.4 (11)	6,491	17.0 (19)	13.3 (10)	9,481	12.7 (19)
35Keweenaw	104	4.8 (1)	9.6 (41)	434	6.2 (11)	2.8 (17)	17.5 (47)	200	21.5 (47)	20.5 (46)	283	16.3 (28)
37Ionia	891	8.4 (10)	8.1 (29)	3,545	5.6 (3)	4.6 (43)	10.7 (17)	1,520	19.0 (41)	13.6 (14)	2,292	8.2 (4)
38Jackson	2,728	10.7 (34)	7.6 (19)	10,147	5.7 (5)	7.9 (47)	10.1 (8)	4,265	18.2 (33)	15.8 (38)	5,785	18.8 (33)
39Kalamazo	3,571	11.3 (35)	7.1 (16)	12,983	6.0 (8)	4.2 (40)	10.9 (22)	5,325	17.1 (22)	14.1 (20)	8,133	31.4 (46)
41Kent	9,051	12.7 (42)	6.1 (12)	34,152	9.5 (45)	2.4 (9)	11.4 (28)	14,794	16.0 (8)	13.5 (12)	21,520	14.5 (22)
43DHD#10	4,264	8.5 (14)	8.0 (25)	15,891	7.5 (25)	2.1 (5)	11.6 (31)	7,233	17.7 (31)	14.7 (25)	10,340	14.2 (21)

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age <= 2.3rd percentile, underweight is defined as weight-for-length <= 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as >= 97.7th percentile.

(7) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age >= 85th to < 95th percentile, and obesity is defined as >= 95th percentile.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.



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## Michigan

### Comparison of Growth and Anemia Indicators by Local Agency

Children Aged < 5 Years (2)

Combined 3 Years

### Comparison of Growth and Anemia Indicators (3,4)

Comparison of Growth and Anemia Indicators (3,4)												
Local Agency	Birth Weight (5)			Height and Weight (6,7)							Anemia Low Hb/Hct (8)	
	Low		High	Short Stature		Under- Weight	Obese	≥ 2 Yrs Overweight and Obese				
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
44Lapeer	902	9.8 (27)	8.4 (34)	3,550	6.3 (12)	2.3 (8)	9.3 (3)	1,536	16.7 (14)	14.5 (23)	2,251	14.8 (23)
45Tuscola	854	8.4 (10)	8.9 (37)	3,317	6.9 (15)	3.3 (30)	9.9 (7)	1,431	17.4 (28)	14.4 (22)	2,009	8.9 (9)
46CAA	1,202	6.8 (3)	7.7 (21)	4,066	7.9 (31)	2.5 (10)	12.4 (38)	1,737	18.3 (36)	16.1 (39)	2,448	26.7 (45)
47Livingst	993	12.4 (41)	7.8 (23)	3,554	8.6 (39)	2.2 (6)	8.7 (1)	1,577	16.9 (17)	11.9 (1)	2,361	8.3 (5)
50Macomb	7,393	11.3 (35)	5.1 (5)	23,928	7.2 (20)	2.9 (19)	11.1 (25)	9,544	14.6 (3)	13.1 (8)	14,181	15.9 (25)
51DCS	1,522	10.4 (31)	6.3 (13)	5,422	6.9 (15)	2.6 (12)	10.8 (20)	2,225	16.2 (10)	14.7 (25)	3,359	17.0 (31)
52Marquett	680	8.7 (16)	8.1 (29)	2,613	10.0 (46)	3.0 (21)	13.5 (43)	1,143	20.0 (44)	15.3 (34)	1,288	8.4 (6)
56MMCAA	870	8.2 (9)	10.2 (43)	3,395	9.3 (43)	2.0 (3)	14.0 (44)	1,353	18.9 (40)	14.7 (25)	1,942	16.0 (26)
58Monroe	1,751	9.6 (26)	6.7 (15)	5,908	7.8 (30)	2.8 (17)	10.5 (13)	2,428	17.1 (22)	14.9 (29)	3,607	16.1 (27)
61Muskegon	3,654	11.7 (39)	5.1 (5)	12,428	8.3 (36)	2.7 (14)	12.5 (40)	5,177	17.1 (22)	14.3 (21)	7,736	22.1 (41)
63Oakland	8,183	12.2 (40)	6.0 (11)	30,071	8.0 (34)	3.0 (21)	9.8 (6)	12,625	15.5 (6)	12.2 (5)	18,558	21.8 (38)
73Saginaw	2,181	11.6 (38)	5.6 (8)	7,519	5.6 (3)	4.3 (41)	10.4 (11)	2,849	17.4 (28)	13.6 (14)	4,522	18.9 (34)
74St Clair	1,983	8.4 (10)	8.0 (25)	6,932	7.6 (29)	3.0 (21)	10.7 (17)	2,801	19.6 (42)	15.3 (34)	4,138	10.9 (14)
76Sanilac	520	8.1 (7)	8.3 (33)	1,822	11.9 (47)	1.0 (1)	15.8 (46)	797	20.7 (46)	22.6 (47)	1,178	16.6 (30)

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age <= 2.3rd percentile, underweight is defined as weight-for-length <= 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as >= 97.7th percentile.

(7) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age >= 85th to < 95th percentile, and obesity is defined as >= 95th percentile.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.

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## Table 6F

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### Michigan

#### Comparison of Growth and Anemia Indicators by Local Agency

Children Aged < 5 Years (2)

Combined 3 Years

#### Comparison of Growth and Anemia Indicators (3,4)

Comparison of Growth and Anemia Indicators (3,4)												
Local Agency	Birth Weight (5)			Height and Weight (6,7)							Anemia Low Hb/Hct (8)	
	Low		High	Short Stature		Under- Weight	Obese	≥ 2 Yrs Overweight and Obese				
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
78Shiawass	986	9.5 (25)	7.7 (21)	3,742	5.9 (7)	3.6 (33)	10.6 (14)	1,689	18.4 (38)	15.5 (36)	2,456	10.8 (12)
81Washtena	2,794	12.8 (43)	4.7 (4)	9,796	6.7 (14)	3.5 (32)	8.7 (1)	4,202	16.3 (11)	12.1 (2)	6,370	23.3 (42)
82Wayne	13,600	11.3 (35)	5.9 (10)	46,813	7.1 (18)	3.0 (21)	10.1 (8)	19,512	14.7 (4)	12.2 (5)	28,598	21.3 (37)
89Urban L	8,336	15.8 (47)	3.7 (1)	31,649	8.0 (34)	6.0 (45)	10.6 (14)	12,726	14.4 (1)	13.4 (11)	19,527	38.2 (47)
90Detroit	17,974	14.0 (46)	4.1 (2)	51,733	7.1 (18)	3.9 (36)	9.4 (4)	20,818	14.4 (1)	12.1 (2)	29,949	25.3 (43)
Michigan	140,119	11.4	6.2	494,668	7.5	3.4	10.8	207,845	16.2	14.5	303,576	19.7

(1) Reporting period is January 1 through December 31.

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age ≤ 2.3rd percentile, underweight is defined as weight-for-length ≤ 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as ≥ 97.7th percentile.

(7) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age ≥ 85th to < 95th percentile, and obesity is defined as ≥ 95th percentile.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.

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## Table 7F

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## Michigan

Comparison of Breastfeeding, TV Viewing, and Smoking in Household by Local Agency (2)

Children Aged < 5 Years (3)

Combined 3 Years

### Comparison of Breastfeeding, TV Viewing, and Smoking in Household (4,5)

Local Agency	Breastfeeding (6)						Exclusive Breastfeeding (7)				≤ 2 Hours TV Viewing/Day (8)		Smoking in Household	
	Number	% Ever Breastfed	Number	% Breastfed At Least 6 Months	Number	% Breastfed At Least 12 Months	Number	% Breastfed At Least 3 Months	Number	% Breastfed At Least 6 Months	Number	%	Number	%
		(Rank)		(Rank)		(Rank)		(Rank)		(Rank)		(Rank)		(Rank)
01DHD#2	1,001	65.7 (36)	753	30.5 (34)	720	11.5 (36)	519	19.3 (28)	656	9.5 (30)	2,297	88.2 (19)	4,595	4.8 (46)
02LMAS	436	74.5 (20)	325	30.8 (31)	362	13.0 (31)	201	25.4 (12)	281	12.5 (18)	1,004	82.1 (34)	2,023	2.7 (23)
04DHD#4	991	73.5 (24)	739	35.0 (22)	836	12.6 (32)	509	21.8 (21)	632	14.2 (11)	2,196	84.2 (31)	4,413	4.6 (43)
05NWMCHA	1,482	80.4 (8)	1,102	45.6 (3)	1,035	19.4 (7)	687	37.4 (2)	931	20.0 (3)	3,494	86.5 (22)	6,918	4.0 (37)
06CMDHD	2,815	74.3 (21)	2,270	37.4 (14)	2,269	14.9 (21)	1,431	23.1 (17)	1,884	11.9 (21)	6,554	88.4 (18)	12,923	4.7 (45)
07West UP	733	81.3 (6)	622	46.0 (2)	612	25.3 (1)	408	28.2 (9)	538	17.1 (5)	1,821	89.5 (11)	3,537	2.1 (17)
08Barry	1,352	80.8 (7)	1,070	38.7 (10)	958	18.0 (11)	658	21.7 (22)	903	10.2 (26)	3,149	85.4 (25)	6,269	1.9 (14)
09Bay	1,434	66.2 (34)	840	30.0 (36)	1,194	13.4 (30)	484	22.9 (18)	763	6.0 (41)	3,346	88.6 (16)	6,693	2.5 (20)
10Gr Trav	1,120	82.6 (4)	724	50.3 (1)	812	25.0 (2)	417	36.9 (3)	580	15.2 (9)	2,207	90.4 (7)	4,643	1.4 (6)
11Berrien	2,380	70.3 (29)	1,614	32.0 (28)	1,242	14.2 (25)	1,238	19.7 (27)	1,376	10.2 (26)	4,627	77.1 (42)	9,911	3.9 (36)
12BHS	2,827	78.8 (10)	1,929	36.6 (17)	1,965	15.6 (19)	1,256	24.9 (14)	1,567	12.8 (16)	5,956	84.6 (29)	12,344	3.1 (28)
13Calhoun	2,546	70.8 (28)	1,723	30.5 (34)	1,905	14.3 (24)	1,101	19.0 (31)	1,362	10.0 (29)	5,519	90.9 (4)	11,104	1.4 (6)
14Leelanau	344	83.4 (2)	257	45.5 (4)	236	18.6 (9)	158	35.4 (4)	214	16.4 (6)	851	80.6 (37)	1,685	4.6 (43)

(1) Reporting period is January 1 through December 31.

(2) TV Viewing and Smoking in Household data are not reported by all contributors.

(3) Analyses based on one record per child.

(4) Excludes records with unknown data or errors.

(5) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

(6) Infants born during the reporting period included in the Ever Breastfed analysis. Infants who turned 6 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 6 Months analysis. Children who turned 12 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 12 Months analysis.

(7) The analysis includes infants who were ever breastfed and who turned that age during the reporting period by/on their date of visit.

(8) Children aged 2 years and older included in the analyses.

\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.

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### Michigan

Comparison of Breastfeeding, TV Viewing, and Smoking in Household by Local Agency (2)

Children Aged < 5 Years (3)

Combined 3 Years

### Comparison of Breastfeeding, TV Viewing, and Smoking in Household (4,5)

Local Agency	Breastfeeding (6)				Exclusive Breastfeeding (7)				≤ 2 Hours TV Viewing/Day (8)		Smoking in Household	
	Number	% Ever Breastfed (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% (Rank)
15Intercar	6,461	75.3 (17)	4,260	35.5 (21)	5,083	14.7 (23)	2,739	24.9 (14)	3,479	13.3 (14)	14,500	92.4 (2)
17Chippewa	537	65.5 (37)	367	40.3 (6)	399	21.6 (4)	242	38.4 (1)	330	26.7 (1)	1,297	91.2 (3)
19Mid-Mich	1,932	81.6 (5)	1,414	38.5 (11)	1,256	19.2 (8)	887	27.8 (11)	1,195	12.2 (20)	4,222	84.5 (30)
21Delta	772	74.1 (22)	544	34.4 (24)	601	10.6 (39)	406	20.9 (25)	458	10.9 (25)	1,600	89.0 (12)
22Iron	527	71.9 (26)	352	40.3 (6)	421	20.4 (5)	278	34.9 (5)	309	21.0 (2)	1,337	88.9 (13)
25Genesee	7,310	55.3 (45)	5,224	24.4 (43)	4,579	10.7 (38)	3,486	12.0 (41)	4,189	6.9 (39)	14,351	82.1 (34)
30HDI	1,579	59.2 (42)	1,099	19.8 (46)	964	7.0 (45)	766	9.1 (44)	1,017	4.3 (44)	3,549	75.2 (44)
32Huron	389	78.1 (12)	313	36.4 (18)	278	13.7 (29)	197	11.7 (42)	266	5.6 (42)	936	86.0 (24)
33Ingham	4,693	74.9 (19)	3,117	39.2 (8)	2,966	18.2 (10)	2,048	19.3 (28)	2,531	11.9 (21)	9,194	90.4 (7)
35Keweenaw	106	75.5 (16)	86	*	61	*	59	*	74	*	236	85.2 (26)
37Ionia	897	82.9 (3)	671	34.7 (23)	785	17.5 (13)	413	28.1 (10)	585	14.0 (12)	2,070	86.8 (21)
38Jackson	2,743	70.1 (30)	2,521	35.9 (19)	2,199	11.6 (35)	1,434	21.6 (23)	2,045	12.9 (15)	6,314	77.6 (41)
39Kalamazo	3,636	68.4 (32)	2,563	31.8 (29)	2,282	14.1 (26)	1,724	21.2 (24)	2,184	8.2 (35)	7,236	77.1 (42)
41Kent	9,156	74.1 (22)	7,466	30.7 (32)	6,670	15.6 (19)	4,838	16.4 (38)	6,286	9.3 (31)	19,399	85.2 (26)

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(7) The analysis includes infants who were ever breastfed and who turned that age during the reporting period by/on their date of visit.

(8) Children aged 2 years and older included in the analyses.

\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.

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## Michigan

Comparison of Breastfeeding, TV Viewing, and Smoking in Household by Local Agency (2)

Children Aged < 5 Years (3)

Combined 3 Years

### Comparison of Breastfeeding, TV Viewing, and Smoking in Household (4,5)

Local Agency	Breastfeeding (6)					Exclusive Breastfeeding (7)					≤ 2 Hours TV Viewing/Day (8)		Smoking in Household	
	Number	% Ever Breastfed (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% (Rank)	Number	% (Rank)
43DHD#10	4,285	76.7 (15)	2,931	39.2 (8)	3,611	18.0 (11)	1,908	29.8 (8)	2,526	13.8 (13)	10,154	88.7 (14)	19,908	3.4 (31)
44Lapeer	908	78.1 (12)	747	36.9 (16)	800	17.4 (15)	503	18.7 (34)	656	8.5 (34)	2,131	90.1 (10)	4,309	0.8 (1)
45Tuscola	856	75.1 (18)	673	37.0 (15)	653	14.1 (26)	435	17.0 (36)	557	5.2 (43)	1,953	88.5 (17)	3,865	3.1 (28)
46CAA	1,209	66.3 (33)	819	32.5 (25)	773	17.2 (17)	602	25.1 (13)	727	12.8 (16)	2,391	81.8 (36)	5,117	3.2 (30)
47Livingst	996	79.4 (9)	773	32.1 (27)	710	17.5 (13)	553	22.1 (20)	686	12.5 (18)	2,250	88.7 (14)	4,636	1.4 (6)
50Macomb	7,468	59.5 (41)	5,224	25.7 (41)	5,357	10.4 (40)	3,997	13.4 (39)	4,588	7.9 (36)	13,414	79.3 (39)	30,153	1.6 (12)
51DCS	1,531	69.4 (31)	1,018	31.2 (30)	1,185	14.8 (22)	578	19.9 (26)	800	10.1 (28)	3,106	86.4 (23)	6,630	1.4 (6)
52Marquett	683	84.3 (1)	429	37.5 (13)	531	17.3 (16)	244	33.6 (6)	339	15.3 (8)	1,565	94.3 (1)	3,105	2.0 (15)
56MMCAA	873	78.6 (11)	681	38.3 (12)	585	22.9 (3)	548	31.9 (7)	605	18.5 (4)	1,832	90.4 (7)	3,878	1.7 (13)
58Monroe	1,759	63.8 (39)	1,370	28.2 (38)	1,270	10.9 (37)	957	17.1 (35)	1,191	7.0 (38)	3,491	85.2 (26)	7,431	3.6 (34)
61Muskegon	3,672	65.0 (38)	2,408	28.9 (37)	2,592	10.1 (41)	1,656	19.1 (30)	1,944	9.1 (32)	7,095	73.9 (45)	15,078	4.3 (41)
63Oakland	8,292	71.4 (27)	6,463	32.5 (25)	5,077	14.0 (28)	4,760	18.9 (32)	5,597	11.7 (23)	17,529	83.2 (32)	36,424	1.0 (2)
73Saginaw	2,189	61.4 (40)	1,593	25.5 (42)	1,359	8.5 (43)	1,220	13.1 (40)	1,327	7.8 (37)	3,863	82.6 (33)	8,810	2.3 (18)
74St Clair	1,996	65.9 (35)	1,378	28.1 (39)	1,497	12.1 (34)	873	18.9 (32)	1,208	11.2 (24)	3,942	79.3 (39)	8,260	4.2 (39)

(1) Reporting period is January 1 through December 31.

(2) TV Viewing and Smoking in Household data are not reported by all contributors.

(3) Analyses based on one record per child.

(4) Excludes records with unknown data or errors.

(5) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

(6) Infants born during the reporting period included in the Ever Breastfed analysis. Infants who turned 6 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 6 Months analysis. Children who turned 12 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 12 Months analysis.

(7) The analysis includes infants who were ever breastfed and who turned that age during the reporting period by/on their date of visit.

(8) Children aged 2 years and older included in the analyses.

\* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.

# WIC PNSS & PedNSS

Run Date: 6/9/2021

## Table 7F

2018 - 2020 Pediatric Nutrition Surveillance (1)

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## Michigan

Comparison of Breastfeeding, TV Viewing, and Smoking in Household by Local Agency (2)

Children Aged < 5 Years (3)

Combined 3 Years

### Comparison of Breastfeeding, TV Viewing, and Smoking in Household (4,5)

Local Agency	Breastfeeding (6)				Exclusive Breastfeeding (7)				≤ 2 Hours TV Viewing/Day (8)		Smoking in Household	
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76Sanilac	523	53.0 (46)	374	30.7 (32)	375	12.3 (33)	230	22.6 (19)	324	15.7 (7)	1,146	90.6 (6)
78Shiawass	989	73.3 (25)	769	35.6 (20)	845	17.2 (17)	490	16.5 (37)	647	9.0 (33)	2,249	88.2 (19)
81Washtena	2,809	78.0 (14)	2,173	41.2 (5)	1,983	20.1 (6)	1,584	24.0 (16)	1,817	15.0 (10)	5,950	90.7 (5)
82Wayne	13,952	56.9 (43)	10,947	26.2 (40)	9,209	9.9 (42)	8,231	9.9 (43)	9,589	6.3 (40)	28,322	80.4 (38)
89Urban L	8,796	56.4 (44)	6,957	21.0 (45)	5,460	7.0 (45)	5,072	8.0 (46)	6,004	4.2 (46)	17,921	61.3 (47)
90Detroit	18,165	51.3 (47)	10,080	22.9 (44)	9,701	7.3 (44)	7,287	8.4 (45)	8,600	4.3 (44)	29,894	65.4 (46)
<b>Michigan</b>	<b>142,230</b>	<b>65.8</b>	<b>101,810</b>	<b>30.4</b>	<b>96,308</b>	<b>13.0</b>	<b>70,351</b>	<b>16.9</b>	<b>86,399</b>	<b>9.3</b>	<b>289,548</b>	<b>81.0</b>
											<b>607,733</b>	<b>2.6</b>

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